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THE

NATIONAL GEOGRAPHIC

MAGAZINE

WASHINGTON
PUBLISHED BY THE NATIONAL GEOGRAPHIC SOCIETY
REPRINT

Price 50 cents

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THE

NATIONAL GEOGRAPHIC MAGAZINE

VOLUME V, 1893

W J McGee, *Chairman*

A. W. Greely C. Hart Merriam

Publication Committee

WASHINGTON

PUBLISHED BY THE NATIONAL GEOGRAPHIC SOCIETY

1894

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1893

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PUBLICATIONS OF THE NATIONAL GEOGRAPHIC SOCIETY

Regular Publications

In addition to announcements of meetings and various circulars sent to members from time to time, the Society issues a single serial publication entitled The National Geographic Magazine. During the first two years of the existence of the Society this serial was issued in quarterly numbers. With the beginning of the third year of the Society and the third volume of the Magazine the form of publication was changed, and the serial now appears at irregular intervals in parts or brochures (designated by pages and designed either for separate preservation or for gathering into volumes) which consist either of single memoirs or of magazine brochures made up of articles, notes, abstracts and other geographic matter, together with the Proceedings and other administrative records of the Society.

The *Magazine* is mailed free to members of the Society and to exchanges. The complete volumes, as well as the separate brochures of the third, fourth and fifth, are sold at the prices given below, by the Secretary, Mr Cyrus C. Babb, 1330 F street, Washington, D. C.

	To Members.	To the Public.
Volume I, 1889: 4 numbers, 334 pages, 16 plates and 26 figures	$1 40	$2 00
Volume II, 1890: 5 numbers, 344 pages, 10 plates and 11 figures	1 40	2 00
Volume III, 1891: 5 brochures, 296 pages, 21 plates and 8 figures	1 60	3 00
Volume IV, 1892: 7 brochures, 239 pages, 20 plates and 5 figures	1 75	3 00
Volume V, 1893: Comprising—		
Discoverers of America; Annual Address by the President, Gardiner G. Hubbard: pp. 1–20, pls. 1–5, April 7, 1893	$0 35	$0 50
The Movements of our Population: by Henry Gannett: pp. 21–44, pls. 6–19, March 20, 1893.	30	50
Rainfall Types of the United States; Annual Report by Vice-President General A. W. Greely: pp. 45–58, pl. 20, April 29, 1893	15	25
Magazine brochure, pp. 59–96, pl. 21, July 10, 1893.	25	50
Proceedings of the International Geographic Conference in Chicago, July 27–28, 1893: pp. 97–256, January 31, 1894	50	75
Administrative brochure, pp. 257–263, i–lxviii, May 5, 1894	40	50
	$1 95	$3 00

Irregular Publications

In the interest of exact bibliography, the Society takes cognizance of all publications issued either wholly or partly under its auspices. Each author of a memoir published in The National Geographic Magazine receives 25 copies, and is authorized to order any number of additional copies at a slight advance on the cost of press-work and paper; and these separate brochures are identical with those of the regular edition issued by the Society. Contributors to the magazine brochures are authorized to order any number of copies of their contributions at a slight advance on cost of press-work and paper, provided these separates bear the original pagination and a printed reference to the serial and volume from which they are extracted; but such separates are bibliographically distinct from the brochures issued by the Society. The *Magazine* is not copyrighted, and articles may be reprinted freely; and a record of reprints, so far as known, is kept.

The following separates from volume V have been issued:

Edition uniform with the Brochures of the Magazine

Pages	1–20, plates 1–5:	225 copies,	April 7,	1893.
"	21–44, " 6–19:	25 "	March 20,	"
"	45–58, plate 20:	50 "	April 29,	"

Special Editions

Pages	59– 62:	50	copies with covers,	July	10,	1893.
"	68– 75:	25	" " "	"	"	"
"	84– 88:	50	" " "	"	"	"
"	112–124:	100	" " "	January	31,	1894.
"	137–153:	700	" " "	"	"	"
"	167–172:	100	" " "	"	"	"
"	197–234:	100	" " "	"	"	"
"	235–256:	50	" " "	"	"	"
"	vi:	1,000	" without covers,	May	5,	"
"	xxv–xxvi:	700	" " "	"	"	"
"	xxix–lxviii:	50	" " "	"	"	"

ERRATA

Facing page 59, outside cover, line 1 from top; *for* "IV" *read* V
" " 59, inside cover, line 9 from top; *for* "Heredeen" *read* Herendeen.
Page 85, foot-note; *for* "pp. —" *read* pp. 475–482.
" 86, " " " " pp. 523–568.
" 134, line 8 from bottom; *for* "Helleland" *read* Helluland.
" 135, " 12 " top; " "Karlsevne" " Karlsefni.
" 136, " 11 " bottom; " "Erickson" " Ericsson.
" 153, " 3 " top; " "Proctor's" " Procter's.
" 176, " 4 " " " "1890" *read* 1891.
" 197, " 21 " bottom; " "Vinland" *read* Vineland.
" 200, lines 10, 14, 16 from top; *for* " " "
" 200, line 10 from top; *for* "Helleland" *read* Helluland.
" 211, lines 16 and 20 from top; *for* "Nicholas" *read* Nicolas.
" 212, line 11 from top; *for* "Nicholas" *read* Nicolas.
" 212, " 11 " " " "Amabric" " Arnabrie.
" 213, " 10 " bottom; *for* "Nicholas" *read* Nicolas.

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PROCEEDINGS

OF THE

NATIONAL GEOGRAPHIC SOCIETY

(*Abstract of Minutes*)

December 30, 1892. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 600.

Civil Engineer R. E. Peary, United States Navy, delivered a lecture on the results of his recent expedition to Greenland, exhibiting during the course of his address a large number of views.

January 6th, 1893. *74th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. President Hubbard in the chair. Attendance, 80.

The report of the Auditing Committee appointed at the annual meeting was read and approved.

General A. W. Greely read a paper on "Rainfall Types of the United States," illustrating his remarks by a colored map and several charts. *Printed in this volume, pp. 45–58.*

Mr H. G. Ogden spoke on "Methods of geographic and topographic Surveying." Remarks were afterward made by Messrs Baker, Wilson, Littlehales, and Gilbert Thompson.

January 13, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. Attendance, 400.

The President, Honorable Gardiner G. Hubbard, delivered the annual address on "Discoverers of America." *Printed in this volume, pp. 1–20.* At the conclusion Professor Alex. Melville Bell read Tennyson's poem on the return of Columbus.

January 20, 1893. *75th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. Mr Willits in the chair. Attendance, 50.

Dr T. C. Mendenhall read a paper on "The use of the Pendulum in determining the Figure and Density of the Earth," illustrating his remarks by diagrams. At the conclusion Mr E. D. Preston made a few remarks.

January 27, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. Vice-President Greely in the chair. Attendance, 400.

Mr Cyrus C. Adams, President of the Department of Geography of the Brooklyn Institute of Sciences and Arts, gave an illustrated lecture on "Recent Results of African Explorations."

February 3, 1893. *76th meeting*

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Mendenhall in the chair. Attendance, 55.

Professor W. M. Davis, of Harvard University, spoke on the "Improvement of geographic Teaching." *Printed in this volume, pp. 68–75.*

February 10, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 350.

Mr Rounsevelle Wildman, United States Consul at Singapore, gave a description of "Malaya and the Sultan of Johore," illustrating his subject by lantern slides and by a number of curios.

February 17, 1893. *77th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. Mr Gilbert in the chair. Attendance, 20.

The chairman read an announcement of the Loubat prizes offered by Columbia College for the best essays on geographic and other subjects.

Two papers were read on the subject of the evening, "The Geomorphology of the southern Appalachians," one by Mr M. R. Campbell, and the other by Dr C. Willard Hayes. Remarks were made at the close by Messrs Willis, Gilbert, and McGee.

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February 24, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 350.

Major J. W. Powell introduced the speaker of the evening, Mr W. D. Kelley, Engineer-in-charge of third Corps, Intercontinental Railway Commission. Mr Kelley exhibited a large number of lantern views, taken in the Andes while making a survey from the equator southward 1,700 miles.

March 10, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall President Hubbard in the chair. Attendance, 500.

Honorable H. L. Dawes in a short address introduced Mr C. L. Carter, one of the commissioners from the Hawaiian islands, who delivered an illustrated lecture on the peoples of these islands.

March 15, 1893. *Special meeting.*

The annnal reception was held at the Arlington Hotel from 9 to 12 p m for the purpose of social intercourse between the members. Attendance, 350.

March 17, 1893. *78th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Merriam in the chair. Attendance, 30.

Honorable Edwin Willits, Assistant Secretary of Agriculture, delivered an address on "The Benefits to Agriculture of geographic Research." Remarks were made by Messrs Merriam and McGee.

March 24, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 600.

General A. W. Greely presented the speaker of the evening, Miss Eliza Ruhamah Scidmore, who described "Japan and its Inhabitants." A large number of lantern views were shown.

March 31, 1893. *79th meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 300.

Mr E. D. Preston, of the United States Coast and Geodetic Survey, gave the results of a scientific expedition to the Sandwich islands. A few lantern views were shown.

April 7, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 300.

Professor William M. Brewer, of Yale University, gave a description of two visits to Colorado, one in 1869 and the other in 1892.

April 14, 1893. *80th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. President Hubbard in the chair. Attendance, 100.

Dr Elliott Coues, of the Smithsonian Institution, gave a description of Lewis and Clark's travels across the American continent, and exhibited the original note books of the expedition.

April 21, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 300.

Mr Courtnay De Kalb read a paper on "Nicaragua and the unexplored Regions of the Mosquito Coast."

April 28, 1893. *81st meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. President Hubbard in the chair. Attendance, 125.

The following proposed amendment to the By-laws was given its first reading by General A. W. Greely:

In article IV, last paragraph, change last sentence to read: "Five members of the Board of Managers shall constitute a quorum at regular meetings and nine members at special meetings."

The first paper of the evening was by Dr T. C. Mendenhall, entitled "The geographic Position and Height of Mount Saint Elias." *Printed in this volume, pp. 63–67.*

Reverend Sumantrao Vishna Karmarkar, a native of Bombay, then spoke of the origin and condition of castes in India.

Mr Marcus Baker and General A. W. Greely discussed the evidence of the probable existence of certain islands off the northern coast of Alaska. *Printed in this volume, pp. 76–83.*

Mr J. S. Diller described a recently extinct volcano in Lassen county, California. *Printed in this volume, pp. 93–96.*

Mr F. H. Newell read a paper on the condition of member-

ship and the library of the Society, illustrating the same with a number of diagrams.

Major J. W. Powell then spoke on the future of the Society, with the advantages incidental to an increase in membership.

May 1, 1893. *Field meeting.*

About 350 members and guests embarked on the steamer Charles Macalester for a trip down the Potomac river. On reaching Indian head, the party was received by Ensign R. B. Dashiell, United States Navy, who explained and illustrated by the actual firing of several guns, the operations of testing naval ordnance and armor plates.

Returning to Marshall Hall, a planked-shad dinner was served, and at 9 p m the Society left for the city.

On the return trip speeches were made by Honorable J. H. Outhwaite and others. Mr Tsunejiro Mijaoka, secretary of the Japanese legation, gave a brief description of Japan and its people. The Reverend Sumantrao Vishna Karmarkar, of Bombay, sang some of his native songs, accompanied by his wife, who afterward spoke briefly on the women of India.

May 5, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 350.

Professor J. S. Rothrock, of the Pennsylvania Forestry Association, described a winter's cruise in the British West Indies. His lecture was illustrated with lantern slides.

May 12, 1893. *82d meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 400.

Dr J. Walter Fewkes, of the Hemenway expedition, delivered an illustrated lecture on "The Moki Snake Dance."

May 19, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 625.

Professor Albert S. Bickmore gave an illustrated lecture on "Moorish Spain."

June 2, 1893. *83d meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Hayden in the chair. Attendance, 75.

The following amendment to the By-laws, proposed by General A. W. Greely, was read and adopted:

In article IV, last paragraph, change last sentence to read: "Five members of the Board of Managers shall constitute a quorum at regular meetings and nine members at special meetings."

Lieutenant W. H. Beehler, United States Navy, read a paper on the Solarometer.

Mr Robert T. Hill read a paper on the geography of Texas.

Mr Henry Gannett read a paper descriptive of the discovery and exploration of the Yellowstone National Park.

June 28, 1893. *Special meeting.*

About 200 members and guests enjoyed the hospitality of President Hubbard at a garden party, from 6 to 10 o'clock p m, at his summer house, Twin Oaks, West Washington.

July 27–28, 1893. { *International Geographic Conference held at Chicago under the Auspices of the Society.*

Morning session, July 27.

The Conference was opened at 10 a m in the hall of Washington, Art Institute building, on Michigan avenue. Honorable Gardiner G. Hubbard, President of the National Geographic Society, in the chair. Attendance, 400.

General John Eaton, formerly United States Commissioner of Education, introduced President Hubbard, who read a paper on "The Relations of Air and Water to Temperature and Life." *Printed in this volume, pp. 112–124.*

Honorable John Abercrombie, delegate from the Royal Scottish Geographical Society, spoke briefly on the general work of his society. *Printed in this volume, pp. 102–104.*

General A. W. Greely, chairman of the Committee on Awards of Prizes of the National Geographic Society, made an announcement of the progress of his committee.

Mme Regina Maney, from La Sociedade de Geographia de Lisboa, spoke briefly on the attitude of that society and of the Portuguese people toward the Conference.

General John Eaton read a paper on "The Relations which may or should exist between the National Geographic Society and geographic Instruction." *Printed in this volume, pp. 105–107.*

Major J W. Powell, Director of the United States Geological Survey, spoke on the "Study of Geography." *Printed in this volume, pp. 107–109.*

Colonel F. W. Parker, Principal of the Cook County Normal School, read a paper on "The Relations of Geography to History." *Printed in this volume, pp. 125–131.*

Captain Magnus Andersen read a paper on "Norway and the Vikings." *Printed in this volume, pp. 132–136.*

Afternoon session.

The Conference was resumed at 3 p m. Attendance, 200.

Professor W. B. Powell, Superintendent of Public Schools, Washington, D. C., read a paper entitled "Geographic Instruction in the Public Schools." *Printed in this volume, pp. 137–153.*

Professor T. C. Chamberlin gave an address on "The Relations of Geology to Physiography in our educational System." *Printed in this volume, pp. 154–160.*

Professor William Libbey, Junior, delegate from the American Geographical Society of New York, read a paper on "The Relations of the Gulf Stream and the Labrador Current." *Printed in this volume, pp. 161–166.*

Mr F. H. Newell, Secretary of the National Geographic Society, read a paper on "The arid Regions of the United States." *Printed in this volume, pp. 167–172.*

Evening session.

At 8 p m the conference was resumed. President Hubbard in the chair. Attendance, 500.

General A. W. Greely delivered an address entitled "International polar Expeditions."

At 9:30 p m the Conference adjourned, to meet next morning at the monastery of La Rabida, in the Columbian Exposition grounds, Jackson park, and afterward to continue the session at 11 a m in Recital Hall.

Morning session, July 28.

From 9 to 11 o'clock a m Mr W. E. Curtis, chief of the Latin-American department, and Captain John G. Bourke, United

States Army, conducted the members of the Conference through the monastery of La Rabida.

At 11 a m the session was called to order in Recital Hall, and Miss E. R. Scidmore read a paper on "Recent Explorations in Alaska." *Printed in this volume, pp. 173–179.*

Dr Adolph Ernst, Venezuelan Commissioner to the World's Columbian Exposition delivered an address on "Venezuela."

Ensign Roger Welles, Junior, United States Navy, described "A Trip up the Orinoco River."

Dr Emil Hassler, Paraguayan Commissioner to the Exposition, was present, but asked to be excused from attempting an address in English.

The Brazilian commissioners to the Exposition, Señor Graciano A. de Azambuja and Baron de Marajo, also made their apologies for not participating more fully.

Afternoon session.

President Hubbard in the chair. Attendance, 100.

Captain John G. Bourke. United States Army, read a paper on "The History of the old Monastery of La Rabida."

Paul B. du Chaillu then spoke of his travels among the Norsemen and of the character of their ancestors, the Vikings.

Captain Victor Maria Concas read a paper on "The Caravels of Columbus." *Printed in this volume, pp. 180–186.*

Mr F. A. Ober read a paper entitled "In the Wake of Columbus." *Printed in this volume, pp. 187–196.*

Mr W. E. Curtis read a paper entitled "Recent Disclosures concerning pre-Columbian Voyages to America in the Archives of the Vatican." *Printed in this volume, pp. 197–234.*

At 5 p m the Conference adjourned *sine die.*

October 23, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 600.

Captain Magnus Andersen, of Norway, gave an illustrated lecture on the "Vikings."

October 27, 1893. *84th meeting.*

Meeting held in the Builders' Exchange Hall. Vice-President Greely in the chair. Attendance, 300.

Reverend George E. Post delivered an address on the "Physical Geography and Ethnology of Syria and Palestine."

November 9, 1893. *Special meeting.*

Meeting held in Columbian University. Attendance, 400.

Dr W. A. Croffut, of the United States Geological Survey, gave an account of "A Winter's Trip through the Tropics." His lecture was illustrated with lantern views.

November 17, 1893. *85th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. President Hubbard in the chair. Attendance, 30.

The following amendment to the By-laws was proposed:

In article V, second paragraph, omit.

Article VI, second paragraph, change "December" to "May." Third paragraph, change to read as follows: "The last regular meeting in December shall be set apart for the President's annual address." Fourth paragraph, change "January" to "November and December."

The Board of Managers announced that it had been found impossible for a volunteer to carry on the duties of Secretary, and that therefore a permanent Secretary, Mr Cyrus C. Babb, had been employed, to assume office November 1, 1894.

The subject of the evening, "The future welfare of the Society," drew out the following speakers: Messrs Ogden, Mendenhall, Newell, Loomis, Blount and Baker.

November 24, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. Vice-President Greely in the chair. Attendance, 500.

Mr J. R. G. Pitkin, Envoy Extraordinary and Minister Plenipotentiary to the Argentine Republic, delivered an illustrated lecture on the "Development, Resources and Possibilities of the Argentine Republic."

December 1, 1893. *86th meeting.*

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Mendenhall in the chair. Attendance, 75.

Honorable Edwin Willits read a letter from Mr Frederick Funston, special agent of the United States Department of Agriculture, now on the upper Yukon river, Alaska.

Mr W. C. Hodgkins, of the United States Coast and Geodetic Survey, read a paper on the "Delaware boundary Survey." Remarks were made by Messrs Marcus Baker and Gilbert Thompson.

Mr Henry Gannett exhibited some proofs of American maps recently taken from copper plates engraved during revolutionary times.

The chair announced that a present of an Ortelius atlas of date 1595 had been made to the Society by Mr H. L. Hall.

December 8, 1893. *Special meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 450.

Mme Alice Le Plongeon gave an illustrated lecture on "Yucatan and the ancient Civilization of the Mayas."

December 15, 1893. *Special meeting.*

Meeting held jointly with the American Forestry Association, in the National Rifles' Armory Hall. President Hubbard in the chair. Attendance, 700.

Honorable J. Sterling Morton, Secretary of Agriculture and President of the Forestry Association, in a short speech, introduced Mr B. E. Fernow, who delivered an address on "The Battle of the Forest," illustrating his remarks with lantern views.

December 22, 1893. *Special meeting.*

Meeting held in the National Rifles' Armory Hall. President Hubbard in the chair. Attendance, 700.

Professor William Libbey, Junior, of the College of New Jersey, Princeton, New Jersey, delivered an illustrated lecture on the "Physical Geography of the Hawaiian Islands."

December 29, 1893. *87th meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 350.

Mr Justice Harlan delivered an address on "The Bering Sea Arbitration Question."

January 5, 1894. *88th (6th annual) meeting.*

Meeting held in the Builders' Exchange Hall. President Hubbard in the chair. Attendance, 400.

Professor W. B. Powell gave a talk on "Geographic Instruction in the Public Schools."

Mr W J McGee spoke on the "Geographic Development of the Atlantic Slope."

Major J. W. Powell made a few remarks.

XUM

After a recess the 6th annual meeting convened. Attendance, 60.

By vote of the Society, the following amendments to the By-laws were adopted:

Article V, second paragraph, omit.

Article VI, second paragraph, change "December" to "May." Third paragraph change to read as follows: "The last regular meeting in December shall be set apart for the President's annual address." Fourth paragraph, change "January" to "November and December."

The joint report of the Secretaries was presented and adopted.

The annual report of the Treasurer was presented and referred to an auditing committee consisting of Messrs Rizer, Winston and Flint.

By vote of the Society, the officers elected this date are to hold over until the last regular meeting in May, 1895.

The annual election of officers for the year 1894 was then held, with the following result:

President—Gardiner G. Hubbard.

Vice-Presidents—T. C. Mendenhall (land);
George W. Melville (sea);
A. W. Greely (air);
C. Hart Merriam (life);
W. B. Powell (art);
Henry Gannett (commercial geography).

Treasurer—C. J. Bell.

Recording Secretary—Cyrus C. Babb.

Corresponding Secretary—Eliza R. Scidmore.

Managers—Marcus Baker,
H. F. Blount,
G. K. Gilbert,
Everett Hayden,
John Hyde,
W J McGee,
F. H. Newell,
Edwin Willits.

SIXTH ANNUAL REPORT OF THE SECRETARIES

(Presented to the Society January 5, 1894)

Membership.—The membership of the Society is now 955 as against 693 of one year ago. Examining in detail the membership, it is found that there are 664 active, 280 corresponding, 9 life, and 2 honorary members. This shows an increase over last year's numbers of 188 active, 72 corresponding, 2 life and 2 honorary.

During the past year there have been 323 new members elected; 34 have resigned, 22 have been dropped for non-payment of dues, and 5 have died, as follows:

Charles Junken, January 24, 1893; Henry C. Swain, March 29, 1893; J. Henry Turner, June 12, 1893; Dr George Vasey, March 4, 1893; Eugene Willenbücher, May 24, 1893. The net increase has therefore been 262.

The death rate in large cities, according to the United States census, for ages corresponding to the average age of our members, is 17 per one thousand. Our death rate is 6, or ⅓ of the ordinary rate. This shows one of the many important advantages in holding membership in the National Geographic Society, and is a fact which, if enlarged on, should materially increase our membership.

Meetings.—There have been 34 meetings or assemblies of the members of the Society. Of these 15 were regular meetings and 19 special. The latter number includes one excursion on May 1 down the Potomac river to Indian head and Marshall Hall, and a lawn party on June 28 at Twin Oaks, where, by the invitation of the President, 200 members and guests were entertained.

One of the regular meetings was for the election of officers and transaction of business. At the remaining 31 meetings the total attendance was 10,110, averaging 326.

In regard to the places of meetings, the hall of the Cosmos Club has been used 10 times, the Columbian University once, the National Rifles' Armory hall twice and the Builders' Exchange hall 18 times.

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On July 27 and 28, in connection with the World's Congress of Education, a Conference of European and American geographers was held at the World's Fair, Chicago, under the auspices of the National Geographic Society; its proceedings were marked by a degree of interest and an attendance quite beyond the expectations of the committee; and it is believed that it exercised a material and beneficial influence toward the study of geography in the United States.

Managers.—The Board of Managers have held 22 meetings for the transaction of business of the Society. On June 2, 1893, a change in the By-laws was adopted, facilitating the transaction of business at the meetings of the Board of Managers.

January 5, 1894, another amendment was adopted in conformity with a resolution passed by the Board of Managers: "That hereafter the annual election of officers shall be held at the last regular meeting in May, and that the Society year, for its fiscal operations, publications and lecture courses, shall begin and end with the annual election meeting."

Owing to the rapid growth of the Society, it has become impossible for a volunteer to carry on the duties of Secretary, and the Board of Managers found it necessary to employ a permanent Secretary, to assume office November 1, 1893.

Magazine.—Six brochures have been published during the year, two forming the last two numbers of volume iv and the remainder a portion of volume v.

The Society has on its exchange list about eighty foreign and domestic geographic societies and its library is increasing rapidly.

Special mention should be made of various gifts to the Society library. Mr H. L. Hall, of Washington, District of Columbia, has presented an old and valuable "Ortelius atlas," of date 1595. Honorable Gardiner G. Hubbard presented, among other things, an "Atlas of America," date 1776, and three volumes of Ramusio's "Navigationi et Viaggi," dates 1550, 1559 and 1565, respectively.

From His Imperial Highness the Arch Duke Ludwig Salvator of Austria there have been received 20 volumes of his works devoted to geographic research.

CYRUS C. BABB,
ELIZA R. SCIDMORE,
Secretaries.

SIXTH ANNUAL REPORT OF THE TREASURER

(Presented to the Society January 5, 1894)

To the President and Members of the National Geographic Society:

I have the honor to submit herewith my annual report, showing receipts and disbursements for the year ending January 5, 1894.

The receipts for dues for 1893 amount to $2,626, an increase over the receipts for 1892 of $461.

The assets of the Society are:

Amount invested in American Security and Trust Company 5 per cent bonds	$300 00
Cash with Bell & Company	307 80
Dues for 1893, unpaid	485 00
	$1,092 80

The cash on hand includes $100, dues for two life memberships, which sum is to be invested in accordance with instructions from the Board of Managers.

Very respectfully,

C. J. BELL,
Treasurer.

Dr. THE TREASURER *in account with* THE NATIONAL GEOGRAPHIC SOCIETY. **Cr.**

1894.			
Jan'y 5. To balance on hand Dec. 23, 1892			$205 31
Cash received for dues: 1891	$27 00		
" " " " 1892	182 00		
" " " " 1893	2,626 00		
" " " " 1894	562 00		
" " " " 1895–6–7	8 00		
" " " life membership	50 00		
			3,455 00
Interest on investment			15 00
Receipts from sale of magazine			147 90
			$3,823 21

1894.	
Jan'y 5. By cash paid for—	
Publication of magazine	$938 03
Expenses of meetings	1,434 08
Clerical assistance to the Secretary and Treasurer	265 00
Salary of Secretary	200 00
Deficit on social meeting, $47, and annual excursion, $47	94 00
Expenses of Committee on Prize Essays	49 50
Sundries, including postage, freight, stationery, joint directory, &c	534 80
Balance on hand (on deposit with Bell & Co)	307 80
	$3,823 21

WASHINGTON, D. C., *January 5, 1894.*

C. J. BELL, *Treasurer.*

REPORT OF THE AUDITING COMMITTEE

(Presented to the Society January 12, 1894)

To the President and Members of the National Geographic Society:

We, a committee appointed at the annual meeting of the Society to audit the accounts of the Treasurer for the year ending January 5, 1894, beg to submit the following report:

The Treasurer's statement of the receipts, consisting of dues from members, interest on investment and sale of magazine, has been examined and found correct, as shown by the books of his office.

The vouchers for expenditures and checks in payment therefor have been examined, compared and found correct.

We have examined the bank book, showing the account with Messrs Bell & Co, and found the cash balance to be three hundred and seven dollars and eighty cents ($307.80), as stated.

The three bonds for $100 each, registered in the name of the Society, were submitted to us for inspection.

H. C. Rizer,
Isaac Winston,
Weston Flint,
Committee.

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BY-LAWS

As Adopted with Amendments up to January 6, 1894

ARTICLE I. Name.

The name of this Society is the "National Geographic Society."

ARTICLE II. Object.

The object of this Society is the increase and diffusion of geographic knowledge.

ARTICLE III. Membership.

The members of this Society shall be persons who are interested in geographic science. There may be three classes of members—active, corresponding and honorary.

Active members only shall be members of the corporation; shall be entitled to vote and may hold office.

Persons residing at a distance from the District of Columbia may become corresponding members of the Society. They may attend its meetings, take part in its proceedings, and contribute to its publications.

Persons who have attained eminence by the promotion of geographic science may become honorary members.

Corresponding members may be transferred to active membership, and, conversely, active members may be transferred to corresponding membership by the Board of Managers.

The election of members shall be entrusted to the Board of Managers.

ARTICLE IV. Officers.

The officers of the Society shall be a President, six Vice-Presidents, a Treasurer, a Recording Secretary and a Corresponding Secretary.

The above-mentioned officers, together with eight other members of the Society, known as Managers, shall constitute a Board of Managers. Officers and Managers shall be elected annually, by ballot, a majority of the votes cast being necessary to an election; they shall hold office until their successors are elected; and shall have power to fill vacancies occurring during the year.

The President, or, in his absence, one of the Vice-Presidents, shall preside at the meetings of the Society and of the Board of Managers; he shall, together with the Recording Secretary, sign all written contracts and obligations of the Society, and attest its corporate seal; he shall deliver an annual address to the Society.

Each Vice-President shall represent in the Society and in the Board of Managers a department of geographic science, as follows:

Geography of the Land; Geography of the Sea; Geography of the Air; Geography of Life; Geographic Art; Commercial Geography.

The Vice-Presidents shall foster their respective departments within the Society; they shall present annually to the Society summaries of the work done throughout the world in their several departments.

They shall be elected to their respective departments by the Society.

The Treasurer shall have charge of the funds of the Society, shall collect the dues, and shall disburse under the direction of the Board of Managers; he shall make an annual report; and his accounts shall be audited annually by a committee of the Society and at such other times as the Board of Managers may direct.

The Secretaries shall record the proceedings of the Society and of the Board of Managers; shall conduct the correspondence of the Society; and shall make an annual report.

The Board of Managers shall transact all the business of the Society, except such as may be presented at the annual meeting. It shall formulate rules for the conduct of its business. Five members of the Board of Managers shall constitute a quorum at regular meetings and nine members at special meetings.

ARTICLE V. Dues.

The annual dues of active members shall be five dollars, and of corresponding members two dollars, payable during the month of January, or, in the case of new members, within thirty days after election.

Annual dues may be commuted and life membership acquired by the payment of fifty dollars.

No member in arrears shall vote at the annual meeting, and the names of members two years in arrears shall be dropped from the roll of membership.

ARTICLE VI. Meetings.

Regular meetings of the Society shall be held on alternate Fridays, from November until May, and excepting the annual meeting they shall be devoted to communications. The Board of Managers shall, however, have power to postpone or omit meetings, when deemed desirable. Special meetings may be called by the President.

The annual meeting for the election of officers shall be the last regular meeting in May.

The last meeting in December shall be set apart for the President's annual address.

The reports of the retiring Vice-Presidents shall be presented in November and December.

A quorum for the transaction of business shall consist of twenty-five active members.

ARTICLE VII. Amendments.

These by-laws may be amended by a two-thirds vote of the members present at a regular meeting, provided that notice of the proposed amendment has been given in writing at a regular meeting at least four weeks previously.

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OFFICERS OF THE SOCIETY

1894

President

GARDINER G. HUBBARD

Vice-Presidents

T. C. MENDENHALL
GEORGE W. MELVILLE
A. W. GREELY
C. HART MERRIAM
W. B. POWELL
HENRY GANNETT

Treasurer

CHARLES J. BELL

Secretaries

CYRUS C. BABB
ELIZA R. SCIDMORE

Managers

MARCUS BAKER
H. F. BLOUNT
G. K. GILBERT
EVERETT HAYDEN
JOHN HYDE
W J McGEE
F. H. NEWELL
EDWIN WILLITS

HONORARY MEMBERS OF THE SOCIETY

His Excellency Grover Cleveland,
Washington, D. C.

Don Christóbal Colón de Toledo de la Cerda y Gante,
Duke of Veragua and Marquis of Jamaica,
Madrid, Spain.

Sir Archibald Geikie,
28 Jermyn street, London, England.

Honorable Charles P. Daly,
84 Clinton place, New York, N. Y.

Dr George M. Dawson,
Canadian Geological Survey, Ottawa, Canada.

Emmanuel de Margerie,
132 rue de Grenelle, Paris, France.

John Murray,
Challenger office, Edinburg, Scotland.

Baron Adolf E. Nordenskiöld,
Stockholm, Sweden.

Ferdinand, Freiherr von Richthofen,
Kurfürstenstrasse 117, Berlin W., Germany.

His Imperial Highness the Archduke Ludwig Salvator
of Austria,
Wien, Austro-Hungary.

Dr D. Estanislao S. Zeballos,
Legation of the Argentine Republic, Washington, D. C.

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MEMBERS OF THE SOCIETY

1894

a, original members. *c*, corresponding members. *l*, life members.
In cases where no city is given in the address, Washington, D. C., is to be understood.

ABBE, PROFESSOR CLEVELAND, *a*, *l*, Weather Bureau.

ABERT, S. T., 722 Seventeenth street.

ACKERMAN, LIEUTENANT A. A., U. S. Navy, Navy Department.

ACKLEY, LIEUTENANT COMMANDER S. M., U. S. Navy, Navy Department.

ADAMS, CYRUS C., 512 Madison street, Brooklyn, N. Y.

ADAMS, F. G., *c*, State Historical Society, Topeka, Kans.

ADAMS, MISS JULIA M., Fourth Auditor's office.

ADDISON, A. D., 808 Seventeenth street.

ADLER, DR CYRUS, Smithsonian Institution.

AHERN, LIEUTENANT GEO. P., U. S. Army, *c*, College of Montana, Deer Lodge, Mont.

AHERN, JEREMIAH, *c*, 661 Market street, San Francisco, Cal.

ALDEN, COLONEL C. H., U. S. Army, War Department.

ALLEN, ANDREW H., State Department.

ALLEN, MISS A. AUGUSTA, 15 Coulter street, Germantown, Pa.

ALLEN, DR J. A., American Museum of Natural History, New York, N. Y.

ALTON, EDMUND, Wormley's Hotel.

ALVORD, MAJOR HENRY E., 932 New York avenue.

ANDERSON, MARY L., *c*, P. O. Box 977, Salt Lake, Utah.

ANDREWS, C. L., *c*, P. O. box 106, Fremont, Wash.

ANDREWS, ENSIGN PHILIP, U. S. Navy, Navy Department.

ANDREWS, WELLS F., Chief Clerk's office, Treasury Department.

APLIN, S. A., JUNIOR, *l*, U. S. Geological Survey.

ASHLEY, OSBORN, 513 Fourth street.

ASPINWALL, REVEREND J. A., 17 Dupont circle.

AUHAGEN, WILHELM, Naval Observatory.

AUSTIN, PROFESSOR E. P., *c*, 964 West Fourth South street, Salt Lake, Utah.

AVERY, ROBERT S., 320 A street S. E.

AYDELOTTE, WM., Loan and Trust building.

AYRES, H. B., Allamuchy, N. J.

AYRES, MISS SUSAN C., *a*, 1813 Thirteenth street.

BABB, CYRUS C., U. S. Geological Survey.

BABB, CYRUS K., *c*, 12 Somerset street, Boston, Mass.

BABCOCK, MAJOR J. B., U. S. Army, 2005 G street.

BABER, HONORABLE GEORGE, 937 K street.

BABER, MISS ZONIA, *c*, 6840 Perry avenue, Englewood, Ill.

BACON, MRS E. O., 915 Sixteenth street.

BADGER, COMMANDER O. C., U. S. Navy, 1517 Twentieth street.

BAGG, R. M., JUNIOR, *c*, Johns Hopkins University, Baltimore, Md.

BAILEY, VERNON, Agricultural Department.

BAKER, DAVID, *c*, Sparrow Point, Md.

BAKER, LUCIUS, *c*, P. O. drawer T, Fresno, Cal.

BAKER, MARCUS, *a*, U. S. Geological Survey.

BALDWIN, A. L., 722 Sixth street N. E.

BALDWIN, H. L., JUNIOR, *a*, U. S. Geological Survey.

BALDWIN, WM. D., 25 Grant place.

BALL, CHARLES B., 942 T street.

BALLOCH, GENERAL G. W., P. O. box 557.

BANCROFT, DR C. F. P., *c*, Phillips Academy, Andover, Mass.

BARBER, A. L., 802 F street.

BARKER, CAPTAIN A. S., U. S. Navy, Navy Department.

BARNARD, E. C., *a*, U. S. Geological Survey.

BARNARD, JOB, 1306 Rhode Island avenue.

BARNES, CHARLES A., *c*, P. O. box 1198, Seattle, Wash.

BARRINGTON, WM. L., 3514 N street.

BARRINGTON, WM. M., Sun building.

BARROLL, LIEUTENANT H. H., U. S. Navy, *c*, Navy Department.

BARRY, CHARLES E., 1421 G street.

BARTLE, R. F., 947 Virginia avenue S. W.

BARTLETT, MISS E. M., 1012 Twelfth street.

BARTLETT, CAPTAIN J. R., U. S. Navy, *a*, Lonsdale, R. I.

BARTON, GEORGE H., *c*, Massachusetts Institute of Technology, Boston, Mass.

BARTON, MISS MARY L., Treasury Department.

BASSETT, C. C., *a*, U. S. Geological Survey.

BATCHELDER, DR C. F., *c*, 7 Kirkland street, Cambridge, Mass.

BATCHELDER, GENERAL R. N., U. S. Army, War Department.

BATES, DR HENRY H., The Portland.

BATES, DR NEWTON L., U. S. Navy,
The Shoreham.

BAYLEY, DR W. S., *c*,
Colby University, Waterville, Me.

BAYLIS, JEROME Z., *c*,
Case School Applied Science, Cleveland, Ohio.

BEAMAN, WM. M.,
U. S. Geological Survey.

BEARDSLEE, CAPTAIN L. A., U. S. Navy, *c*,
U. S. Naval station, Port Royal, S. C.

BECKHAM, MISS BLANCHE,
2721 N street.

BELL, DR A. GRAHAM, *a*,
1331 Connecticut avenue.

BELL, PROFESSOR A. MELVILLE,
1525 Thirty-fifth street.

BELL, C. J., *a*,
1405 G street.

BELL, J. LOWRIE,
2017 O street.

BELT, DR E. OLIVER,
The Albany.

BENTON, FRANK,
Agricultural Department.

BERGMANN, H. H.,
511 Seventh street.

BERNADOU, LIEUTENANT J. B., U. S. Navy, *c*,
Navy Department.

BERTHOUD, EDWARD L., *c*,
P. O. box 45, Golden, Colo.

M. W. BEVERIDGE,
1618 H street.

BIBBINS, ARTHUR, *c*,
Woman's College of Baltimore, Baltimore, Md.

BIEN, JULIUS, *a*,
140 Sixth avenue, New York, N. Y.

BIEN, MORRIS, *a*,
General Land Office.

BIGELOW, PROFESSOR FRANK H.,
1625 Massachusetts avenue.

BIGELOW, OTIS,
1501 Eighteenth street.

BIRCH, CHARLES E.,
Hydrographic Office.

BIXBY, CAPTAIN W. H., U. S. Army, *c*,
U. S. Engineer's office, Newport, R. I.

BLAIR, H. B., *a*,
U. S. Geological Survey.

BLOUNT, HENRY F., 3101 U street.

BLOUNT, MRS L. E., 3101 U street.

BLOUT, H. L., 24 Grant place.

BODFISH, SUMNER H., *a*, 58 B street N. E.

BOND, MISS MARY E., 813 First street.

BOURSIN, HENRY, Slack block, Everett, Wash.

BOWER, R. A., *c*, 166 Adams street, Chicago, Ill.

BOWERS, DR STEPHEN, *c*, Ventura, Cal.

BOYCE, SILAS, 917 R street.

BRADLEY, HONORABLE A. C., 2013 Q street.

BRADLEY, GEORGE L., 2035 P street.

BRADLEY, MRS J. M., 816 K street.

BRANNER, DR J. C., Leland Stanford Junior University, Cal.

BRECKINRIDGE, GENERAL J. C., U. S. Army, War Department.

BREWER, MISS CLARA G., 1009 Thirteenth street.

BREWER, MISS KATE, 1409 Thirtieth street.

BREWER, PROFESSOR WM. H., 418 Orange street, New Haven, Conn.

BRIGHAM, PROFESSOR A. P., *c*, Colgate University, Hamilton, N. Y.

BRIGHT, RICHARD R., 130 B street N. E.

BRITON, A. T., 622 F street.

BROADHEAD, PROFESSOR G. C., *c*, Columbia, Mo.

BROOKS, NEWTON M., 233 Second street S. E.

BROOKS, ALFRED H., *c*, 404 Harvard street, Cambridge, Mass.

BROOKS, MAJOR T. B., *c*, Newburg, N. Y.

BROWN, EDWARD J.,
820 Twentieth street.

BROWN, MISS JENNIE A.,
Howard avenue, Mount Pleasant.

BROWN, WILL Q., *c*,
Riddles, Ore.

BROWNE, A. B.,
622 F street.

BROWNELL, ERNEST H., *c*,
Brown University, Providence, R. I.

BRYAN, SAMUEL M.,
2025 Massachusetts avenue.

BUCK, MISS ADA P.,
635 Maryland avenue N. E.

BUCKLEY, MISS M. L.,
Bureau of Pensions.

BUCKLEY, FRED. G., *c*,
Aspen, Colo.

BURCHELL, N. L.,
1102 Vermont avenue.

BURR, J. H. TEN EYCK, *c*,
Cazenovia, N. Y.

BURTON, PROFESSOR A. E., *a*,
Massachusetts Institute of Technology, Boston, Mass.

BUTLER, MISS ELLA C.,
1107 Eleventh street.

CABELL, PROFESSOR WM. D.,
1401 Massachusetts avenue.

CAMPBELL, MISS J. S.,
136 C street S. E.

CAMPBELL, M. R.,
U. S. Geological Survey.

CANTWELL, LIEUTENANT J. C., U. S. Revenue Marine, *c*,
1818 Sacramento street, San Francisco, Cal.

CARLETON, P. J., *c*,
Rockport, Me.

CARMAN, MISS ADA,
1351 Q street.

CARPENTER, FRANK G.,
1318 Vermont avenue.

CARR, GENERAL E. A., U. S. Army,
The Richmond.

CARROLL, CAPTAIN JAMES, *c*,
Juneau, Alaska.

CATLIN, CAPTAIN ROBERT, U. S. Army,
1428 Euclid place.

CHAMBERLIN, PROFESSOR T. C., *c*,
University of Chicago, Chicago, Ill.

CHAPMAN, D. C.,
U. S. Coast and Geodetic Survey.

CHAPMAN, R. H., *a*,
U. S. Geological Survey.

CHATARD, DR T. M., *a*,
1758 K street.

CHENERY, LIEUTENANT COMMANDER L., U. S. Navy, *c*,
University Club, New York, N. Y.

CHERRY, CHARLES H.,
1115 S street.

CHESTER, COMMANDER C. M., U. S. Navy, *c*,
U. S. Naval Academy, Annapolis, Md.

CHESTER, MISS J. M.,
1016 Eleventh street.

CHILDS, PROFESSOR T. S.,
1308 Connecticut avenue.

CHILTON, WILLIAM B.,
U. S. Coast and Geodetic Survey.

CHISHOLM, C. F.,
87 Patent Office.

CHRISTIE, ALEX. S.,
115 Fourth street N. E.

CHRISTIE, P. H.,
U. S. Geological Survey.

CLAPP, GEORGE H., *c*,
116 Water street, Pittsburg, Pa.

CLARK, CHARLES S.,
Gales school.

CLARK, DR EGBERT A.,
1756 M street.

CLARK, E. B., *a*,
U. S. Geological Survey.

CLARK, PROFESSOR ISAAC,
Howard University.

CLARK, MISS MAY S.,
U. S. Geological Survey.

CLARK, MISS S. H.,
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CLARK, DR W. B., *c*,
Johns Hopkins University, Baltimore, Md.

CLAYPOLE, PROFESSOR E. W., *c*,
Buchtel College, Akron, Ohio.

CLEMENTS, MISS L. H.,
1610 Q street.

CLOVER, LIEUTENANT COMMANDER R., U. S. Navy,
1535 New Hampshire avenue.

COGSWELL, MRS T. F.,
Treasury Department.

COLBY, HONORABLE LEONARD W.,	1325 Tenth street.
COLE, T. L.,	Corcoran building.
COLEMAN, MAJOR F. W.,	The Richmond.
COLLIE, PROFESSOR G. L., *c*,	Beloit College, Beloit, Wis.
COLONNA, B. A.,	138 B street N. E.
COLTON, FRANCIS,	1635 Connecticut avenue.
COMSTOCK, MRS S. C.,	1464 Rhode Island avenue.
COMSTOCK, PROFESSOR T. B., *c*,	University of Arizona, Tucson, Ariz.
CONLEY, MISS M. J., *c*,	Cohocton, N. Y.
CONNOLLY, MISS LOUISE,	1416 Sixth street.
COOK, FRED. W., *c*,	515 Power building, Helena, Mont.
COOLEY, MISS GRACE E., *c*,	Wellesley College, Wellesley, Mass.
COON, CHARLES E.,	1708 H street.
COPELIN, MISS E. G.,	Kendall Green.
CORSON, MISS IDA,	914 Farragut square.
COTTMAN, LIEUTENANT V. L., U. S. Navy, *c*,	Navy Department.
COUES, DR ELLIOT,	Smithsonian Institution.
COVILLE, FREDERICK V.,	Agricultural Department.
COX, MISS ALICE C.,	1454 Rhode Island avenue.
CRAGIN, PROFESSOR F. W., *c*,	Colorado College, Colorado Springs, Colo.
CRAIGHEAD, DR J. G.,	The Concord.
CRANE, AUGUSTUS, JUNIOR,	1344 F street.
CRESSON, DR H. T., *c*,	The Gladstone, Philadelphia, Pa.
CROFFUT, W. A.,	U. S. Geological Survey.

CROSS, WHITMAN,	U. S. Geological Survey.
CROUTER, A. L. E., *c*,	"Mount Airy," Philadelphia, Pa.
CROWELL, MRS A. S., *c*,	114 North Twenty-fourth street, Omaha, Neb.
CULBERTSON, DR EMMA B., *c*,	33 Newbury street, Boston, Mass.
CULVER, PROFESSOR G. E., *c*,	835 Harrison avenue, Beloit, Wis.
CUMMIN, ROBERT D., *a*,	U. S. Geological Survey.
CUMMINGS, PROFESSOR GEORGE J.,	Howard University.
CUMMINGS, MISS M. B.,	520 Sixth street.
CUMMINGS, MISS S. E.,	520 Sixth street.
CUNNINGHAM, JOHN M., *c*,	Cosmos Club, San Francisco, Cal.
CUNNINGHAM, MRS W. O.,	1723 K street.
CURRY, J. L. M.,	1736 M street.
CURRY, W. W.,	1510 Ninth street.
CURTIS, G. CARROLL, *c*,	68 Thayer hall, Cambridge, Mass.
CURTIS, WILLIAM E., *a*,	1801 Connecticut avenue.
CUSHING, MISS S. C.,	310 Indiana avenue.
CUSTIS, DR G. W. N.,	112 East Capitol street.
CUTTER, W. P.,	Agricultural Department.
DABNEY, DR C. W., JUNIOR,	Agricultural Department.
DAGGETT, MRS M. S.,	1501 R street.
DALL, MRS CAROLINE H.,	1526 Eighteenth street.
DALL, WM. H.,	Smithsonian Institution.
DALY, HONORABLE CHARLES P.,	84 Clinton place, New York, N. Y.
DALY, REGINALD A., *c*,	10 Mellen street, Cambridge, Mass.

DARTON, N. H.,
U. S. Geological Survey.

DAVIDGE, WALTER D., JUNIOR,
1 Corcoran building.

DAVIDSON, PROFESSOR GEORGE, *a*, *c*,
U. S. Coast and Geodetic Survey, San Francisco, Cal.

DAVIES, CHARLES,
1915 Sixth street.

DAVIS, MISS ADELAIDE,
115 B street S. E.

DAVIS, ARTHUR P., *a*,
U. S. Geological Survey.

DAVIS, MRS J. T.
1126 Thirteenth street.

DAVIS, WALTER W.,
714 A street N. E.

DAVIS, PROFESSOR WM. M., *a*,
2 Bond street, Cambridge, Mass.

DAVIS, W. T., *c*,
American Bank building, Kansas City, Mo.

DAWSON, MISS A. B.,
U. S. Geological Survey.

DAWSON, THOMAS F.,
U. S. Senate annex.

DAY, C. A.,
National Safe Deposit Company.

DAY, DR DAVID T.,
U. S. Geological Survey.

DAY, E. WARREN,
War Department.

DENNEY, MISS E. A.,
707 Thirteenth street.

DENNY, ARTHUR A., *c*,
1328 Front street, Seattle, Wash.

DETWEILER, F. M.,
420 Eleventh street.

DICKINS, COMMANDER F. W., U. S. Navy,
Navy Department.

DILLER, J. S., *a*,
U. S. Geological Survey.

DODGE, R. E., *c*,
22 Stoughton Hall, Cambridge, Mass.

DOLE, MRS E. G.,
1014 Fourteenth street.

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